

New York State Department of Transportation

Yellow Flag NB2222W008

By: Sahadeo Bhagwandin
Flag Date: March 30, 2022

Superseding Information:
This flag supersedes: YF NB2197W037

Structure Information

BIN: 1065318
Feature Carried: 278I278IX2M23027
Feature Crossed: 6TH AVENUE
Orientation: 8 - NORTHWEST
Region: 11 - NEW YORK CITY
County: KINGS
Political Unit: City of NEW YORK
Approximate Year Built: 1962
Posted Load Matches Inventory : Yes
Bridge Load Posting (Tons) : Not Posted for Load
Primary Owner: New York State Department of Transportation
Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party
Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder
This Bridge is not a Ramp
Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.
Date: March 30, 2022 10:00:00 AM
Of: NYSDOT Region 11

Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1
Date: April 13, 2022
Reviewed By: Robert Kemp
Date: April 13, 2022

Attachments: 7

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 255			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB2222W008 is superseding Yellow Flag No. NB2197W037.

Location: Span 255, Girder G1 at Pier 254

Description: Girder G1 web along connection angle exhibits overall 55% section loss for full height (previously noted to be 56%). Additionally, the left connection angle exhibits full height 100% section loss along the fillet (same as previously noted).

There has been no significant changes to this flagged condition since the previous inspection.

Notes:

- 1.The affected member, Girder G1 is a load path redundant steel girder consisting of a web depth of 19.5" inches and thickness of 0.612 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk. All dimensions were measured in the field.
- 2.The right connection angle exhibits three corrosion holes measuring 3.5"L x 3"H, 1.5"L x 1.75"H and 4"L x 3.5"H. The remaining height of the connection angle below Girder G1 exhibits up to 90% section loss. The right connection angle along the web of Girder G1 is in good condition.
- 3.Girder G1 web along bottom flange exhibits up to 35% section loss for 12"L x 2"H area.
- 4.The adjacent Girder G2, is 5'-5" on center, exhibits up to 25% section along the connection angle for 1"W x full height.
- 5.The adjacent Stringer S1, approximately 24" on center, acts as a support for the railing and curb area above and has up to 20% section loss in the web along connection angle and 3"L x 2.5"W hole at the right side of the angle at connection. Overall bottom flange for 1.5'L section is approximately 50%.
6. A double left lane closure on 3rd Avenue Eastbound between 20th and 21st streets with shadow vehicle and a 30' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

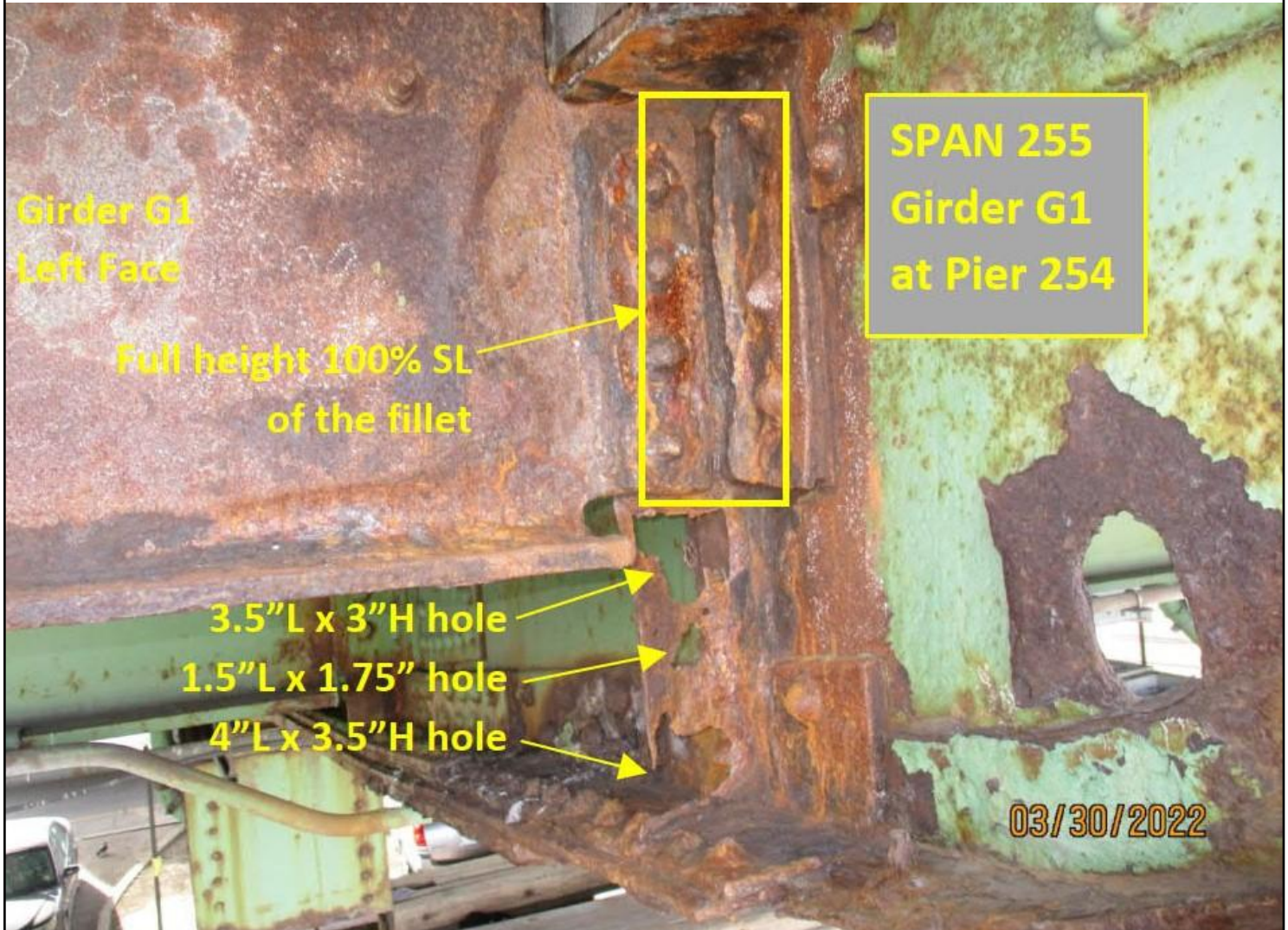
Photo Filename: Photo 1-4668 edit.jpg



Attachment Description: Photo 4668 – Span 255, Girder G1 at Pier 254. General view of the flagged location at pier cap connection. Looking begin.

Photo Number: 2

Photo Filename: Photo 2-4644 edit.jpg



Attachment Description: Photo 4644 – Span 255, Girder G1 at Pier 254. Close-up view of Girder G1 end showing heavy section loss to the web of the Girder and corrosion holes in the right connection angle. Looking begin right.

Photo Number: 3

Photo Filename: Photo 3-4651 edit.jpg



Attachment Description: Photo 4651 – Span 255, Girder G1 at Pier 254. Close-up view of the full height 100% section loss along the fillet. Looking begin right.

Photo Number: 4

Photo Filename: Photo 4-4658 edit.jpg



Attachment Description: Photo 4658 – Span 255, Girder G1 at Pier 254. Close-up view of girder G1 left side web along connection angle exhibits overall 55% section loss for full height x 1-3” wide. Looking begin right.

Photo Number: 5

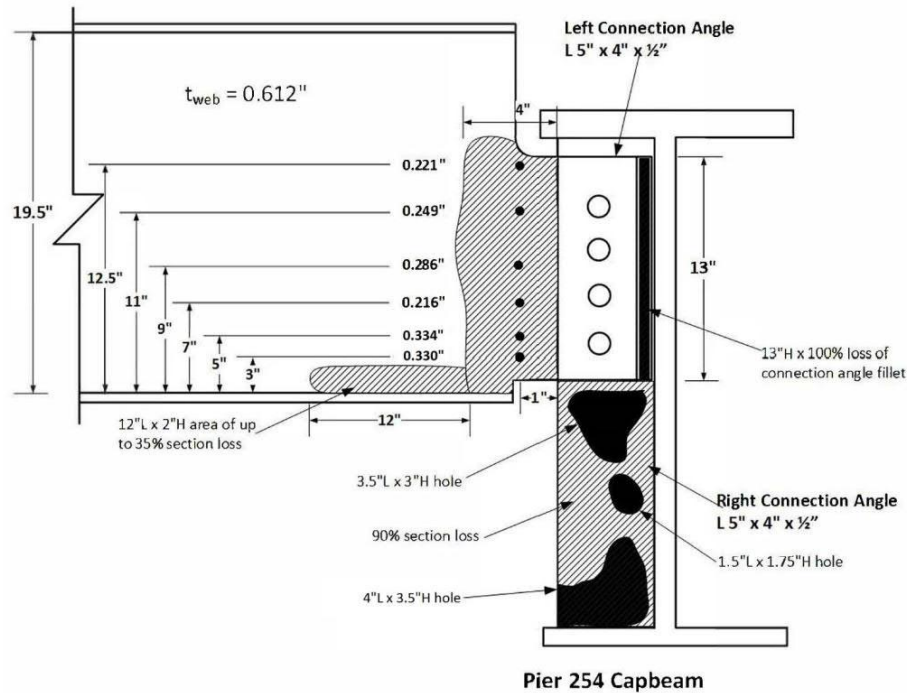
Photo Filename: Photo 5-4647 edit.jpg



Attachment Description: Photo 4647 – Span 255, Girder G1 at Pier 254. Close-up view of girder G1 right connection angle exhibits three corrosion holes measuring 3.5”L x 3”H, 1.5”L x 1.75”H and 4”L x 3.5”H. Looking right.

Photo Number: 6

Photo Filename: YF NB2222W008 Sketch_Span 255 at G1_03-30-22.



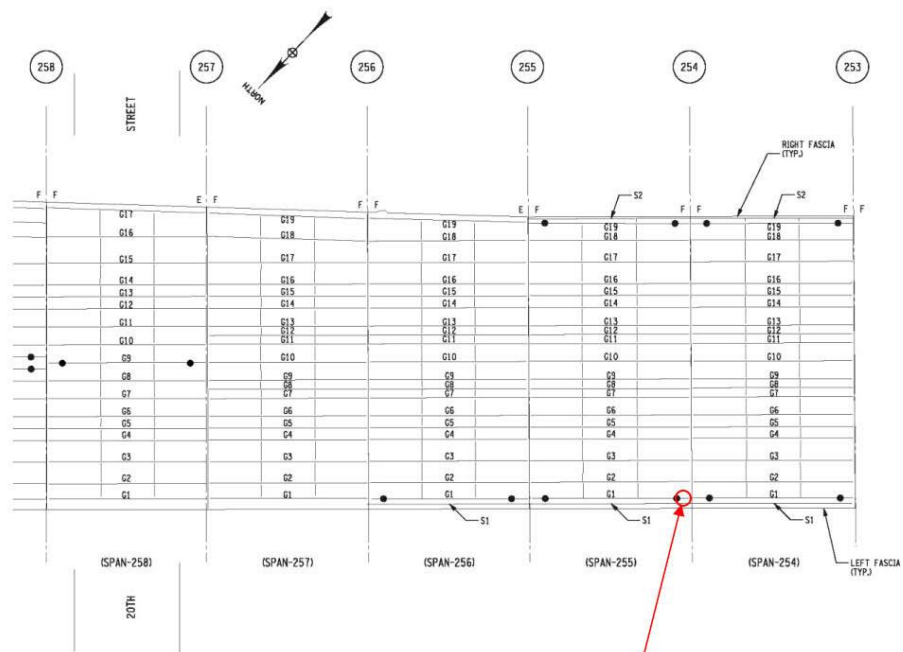
Average remaining web section – $(0.221 + 0.249 + 0.286 + 0.216 + 0.334 + 0.330) / 6 = 0.273"$
 Web section loss – $(1 - (0.273 / 0.612)) \times 100\% = 55.39\%$ SAY = 55%

Span 255, Girder G1 at Pier 254
 (Looking Right)
 N.T.S

Attachment Description: SN 255 G1 at Pier 254 Sketch

Photo Number: 7

Photo Filename: SN 255 G1 Framing Plan - 2022 - edit.jpg



**YELLOW FLAG
LOCATION**
No. NB2222W008

Attachment Description: SN 255 G1 at Pier 254 Framing Plan